

**LEWIS  
AND  
ROCA**  
LLP  
LAWYERS

Phoenix Office  
40 North Central Avenue  
Phoenix, Arizona 85004-4429  
Facsimile (602) 262-5747  
Telephone (602) 262-5311

Tucson Office  
One South Church Avenue  
Suite 700  
Tucson, Arizona 85701-1611  
Facsimile (520) 622-3088  
Telephone (520) 622-2090

Las  
399  
Sui  
Las



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Facsimile (202) 949-8398  
Telephone (202) 949-8200

Marjorie J. Haberman  
Direct Dial: (602) 262-5351  
Direct Fax:  
Internet: mhaberman@lrlaw.com

2002 FEB 15 P 4:00

AZ CORP COMMISSION  
DOCUMENT CONTROL  
Our File Number 41905-00001

February 15, 2002

**VIA HAND DELIVERY**

Arizona Corporation Commission

**DOCKETED**

FEB 15 2002

Ms. Nancy Cole  
Utilities Division - Docket Control  
Arizona Corporation Commission  
1200 W. Washington Street  
Phoenix, Arizona 85007

DOCKETED BY	<i>nae</i>
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Re: Docket No. E-00000D-02-0065, A.R.S. 40-36.02  
Public Service Company of New Mexico Ten-Year Plan (2002 –  
2011)

Dear Ms. Cole:

Lewis and Roca hereby submits an additional copy of the Ten-Year Plan for Public Service Company of New Mexico. The company's original filing was submitted to the Director of Utilities via Federal Express and signed for receipt by the Arizona Corporation Commission on January 31, 2001. That filing, however, has not been docketed with your office so we are submitting these additional copies for docketing purposes.

Very truly yours,

*Marjorie J. Haberman*

Marjorie J. Haberman  
Paralegal

/mjh  
Enclosure

cc: Jeffrey R. Harris

Public Service Company  
of New Mexico  
Alvarado Square, MS-0920  
Albuquerque, NM 87158  
505 241-2700  
Fax 505 241-2386

ORIGINAL

RECEIVED

2002 FEB 15 P 4: 00  
January 30, 2002



Director of Utilities  
Arizona Corporation Commission  
1200 West Washington  
Phoenix, AZ 85007

Subject: Public Service Company of New Mexico (PNM)  
2002 Arizona Ten-Year Plan Submittal

E-00000D-02-0065

Dear Director:

Enclosed for filing is PNM's 2002 Arizona Ten-Year Plan submittal pursuant to Arizona Revised Statutes, Section 40-360.02 relative to power plant and transmission line siting. If there are any questions concerning PNM's filing, please direct them to the undersigned at (505) 241-2808 or to Mr. Jeffrey R. Harris at (505) 855-6275.

Thank you.

Sincerely,

A handwritten signature in black ink that reads "Roger D. Eklund". The signature is written in a cursive style.

Roger D. Eklund  
Regulatory Project Manager

Enclosure

RDE/rde

cc: Mr. Jeffrey R. Harris - PNM

**PUBLIC SERVICE COMPANY OF NEW MEXICO**

**TEN-YEAR PLAN**

**2002 TO 2011**

**January 2002**

**Prepared for the**

**Arizona Corporation Commission**

**and the**

**Power Plant and Transmission Line Siting Committee**

**PUBLIC SERVICE COMPANY OF NEW MEXICO**

**TEN-YEAR PLAN**

**2002 TO 2011**

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# **PUBLIC SERVICE COMPANY OF NEW MEXICO**

## **TEN-YEAR PLAN**

**2002 TO 2011**

### **General Information**

This report is submitted pursuant to Arizona Revised Statutes, Section 40-360.02, relating to power plant and transmission line siting requirements.

PNM presently has no definitive plans to construct new generating plants in Arizona. However, PNM is continually assessing power marketing opportunities and/or projects that may ultimately result in construction of new generation should such opportunities/projects come to fruition. If PNM decides to develop a new power plant in Arizona, or to purchase an interest in a power plant under development in Arizona, PNM will file a timely plan with the Commission to the extent required by subsection B of Section 40-360.02.

PNM has one transmission project to report, the Sonora - Arizona Transmission Interconnection Project. The Sonora - Arizona Interconnection Project would be the first of its kind between the US and Mexico and would link the Western US electric power market center at Palo Verde with a significant electric node in the Mexican National System at the Santa Ana Substation in the State of Sonora. PNM proposes to construct two 345 kV high voltage circuits, within a single right-of-way, to interconnect the existing electrical systems of the United States and Mexico. The desired in-service date for these facilities is Summer 2004. The two circuits will primarily be constructed on single circuit towers but may utilize double circuit towers in selected areas to minimize impacts and, depending on economic and other business conditions at the time, the individual circuits may actually be constructed based on a phased timing approach. Over the majority of the preferred route the lines will follow existing utility features including other electric transmission lines and natural gas pipelines. Both of the proposed transmission circuits would originate at the Palo Verde Nuclear Generating Station (PVNGS) High Voltage Switchyard [formerly referred to as the Arizona Nuclear Power Project (ANPP) High Voltage Switchyard] and connect with complimentary facilities of the Comisión Federal de Electricidad (CFE) at an existing substation named Santa Ana, located some 60 miles south of the international border.

In order to assure reliable and secure operation of the electric interconnection, conversion equipment to convert the power flow from alternating current "AC" to direct current "DC" and then back to AC would be installed at a single converter station, preferably located at a point close to the international border for technical reasons. The line(s) between the PVNGS High Voltage Switchyard and this new converter station would be operated at 345 kV, while the line(s) between the new converter station and the interconnection point with the Mexican system would be operated at either 230 or 400 kV. Each of the individual AC Line(s) is expected to be rated for a transfer capability of approximately 400 to 500 MWs.

**PUBLIC SERVICE COMPANY OF NEW MEXICO**

**TEN-YEAR PLAN**

**TRANSMISSION FACILITIES**

**2002 TO 2011**

<b>Line Designation</b>	Arizona - Sonora Transmission Interconnection Project
<b>Size</b>	
(a) Voltage	345 kV AC in Arizona
(b) Capacity	800 to 1,000 MW depending on final system design
(c) Point of Origin	PVNGS High Voltage Switchyard
(d) Intermediate Point	None identified at this time. Potential for intermediate connection points are under discussion and may be a consideration as project develops.
(e) Point of Termination	Santa Ana Substation, Santa Ana, Sonora, Mexico
(f) Length	Approximately 250 to 300 miles, depending on final routing, of which 200 to 235 miles are in Arizona
<b>Routing</b>	To be determined (see map)
<b>Purpose</b>	To interconnect the electrical systems of the United States and Mexico
<b>Date</b>	
(a) Construction To Start	Spring 2003
(b) Expected In-Service Date	Summer 2004

**PUBLIC SERVICE COMPANY OF NEW MEXICO**

**TEN-YEAR PLAN**

**TRANSMISSION FACILITIES**

**2002 TO 2011**

**Technical Studies**

Three reports of significance address the impact of the proposed project on the current and planned Arizona electric transmission system. These reports were submitted with Salt River Project's Ten-Year Plan for 2002 and are hereby incorporated by reference below:

**"Report on the Preliminary Study  
for the Palo Verde Interconnection"**

Prepared for the Palo Verde Interconnection  
and the Western Arizona Transmission System Task Force  
by Salt River Project  
March 2, 2001

**"Report on the Phase 1 Study of the Central  
Arizona Transmission System (CATS)"**

Prepared for the CATS Steering Committee  
by Arizona Public Service, Salt River Project,  
and Tucson Electric Power  
July 20, 2001

**"Study Plan and Timeline for CATS Phase II"**



# Public Service Company of New Mexico/Alstom Sonora-Arizona Interconnection Project Routing Alternatives

